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Progress Toward Global Eradication of Dracunculiasis, January-June 2003

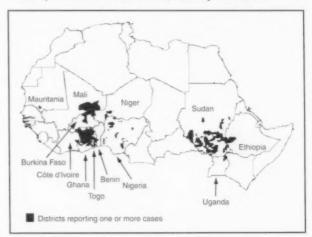
In 1986, when the World Health Assembly adopted a resolution calling for the eradication of dracunculiasis (Guinea worm disease), an estimated 3.5 million persons in 20 countries had the disease, and approximately 120 million persons were at risk for infection (1,2). By the end of 2002, annual incidence of the disease had been reduced >98%; seven countries in which dracunculiasis formerly was endemic (Cameroon, Chad, India, Kenya, Pakistan, Senegal, and Yemen) were free of the disease, and four countries (Central African Republic, Ethiopia, Mauritania, and Uganda) reported <100 cases each. During 1993-2002, the number of villages outside Sudan that reported cases decreased from approximately 23,000 to 2,022. This report describes the status of the global Dracunculiasis Eradication Program (DEP)* as of June 2003. The data indicate that incidence of the disease outside Ghana and Sudan has declined substantially since June 2002. Continuing efforts in all countries in which the disease is endemic, intensified efforts in Ghana, and an end to the ongoing war in Sudan are required for the eradication of dracunculiasis.

To conduct surveillance, village–based health-care workers (usually volunteers) search for infected persons (those with skin lesions and emerging Guinea worms) in each village with endemic disease and complete a register that serves as a basis for monthly zonal, district-, regional-, and national-level reports. In 2002, a total of 54,648 cases were reported in 6,255 villages in 12 African countries (3); 4,233 (68%) of those villages were in Sudan, which reported 41,493 (76%) cases. Outside Sudan, 573 villages reported five or more cases each. The World Health Organization (WHO) is investigating whether dracunculiasis is endemic in Central African Republic,

which reported no cases in 2002 or during January–June 2003 (3) but which during previous years had reported cases imported from other countries and presumed indigenous cases.

During January–June 2003, a total of 15,688 cases were reported in 12 African countries (Figure), including 8,477

FIGURE. Distribution of cases of dracunculiasis (Guinea worm disease) — East and West Africa, January–June 2003*



^{*} Provisional data as of June 30, 2003.

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^{*} Major program partners include the ministries of health in 20 countries in which dracunculiasis is or was endemic, The Carter Center, United Nations Children's Fund (UNICEF), World Health Organization, Bill and Melinda Gates Foundation, other bilateral and private donors, U.S. Peace Corps, and CDC.

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Notifiable Disease Morbidity and 122 Cities Mortality Data

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Donna Edwards Patsy A. Hall Pearl C. Sharp (54%) from Sudan and 5,436 (35%) from Ghana (Table), compared with 23,116 total cases reported during January–June 2002, including 16,871 (73%) from Sudan and 3,115 (13%) from Ghana.

In West Africa, the disease is most endemic in Ghana, which had 75% of cases reported outside Sudan. During January–June 2003, Ghana reported 5,436 cases, 75% more than during the same period in 2002; 5,242 (96%) of these cases occurred in 15 (14%) of 110 districts. This increase reflects improved surveillance in these mostly contiguous northern districts. In mid-2002, with the help of increased technical assistance, Ghana enhanced its surveillance, investigations, and interventions. Since then, approximately 6,000 more village-based personnel have been mobilized, and all interventions have been improved in the 15 districts in which the disease burden is greatest.

During January–June 2003, among 10 other countries with endemic disease, the number of reported cases declined 45%, compared with a reduction of 35% during the same reporting period in 2002 (4); the number of cases declined 44% in Nigeria, the country with the third-highest number of cases, and 60% in Benin, 63% in Burkina Faso, and 76% in Côte d'Ivoire. A total of 42 cases were exported from one country to another, including 18 from Sudan, 14 from Ghana, four from Togo, four from Niger, and one each from Mali and Nigeria.

Nomadic Tuareg populations in the shared border areas of Burkina Faso, Mali, and Niger have endemic dracunculiasis infection and pose special challenges to programs in those countries. During January–June 2003, these three countries intensified interventions (e.g., distribution of more cloth filters and more extensive health education in communities in which the disease is endemic) and increased their coordination. In Togo, which reported 20% fewer cases during January–June 2003 than during the same period in 2002, the number of cases in two northern regions adjacent to areas of northern Ghana in which disease is highly endemic increased 100% (from 88 cases to 176). Togo is intensifying interventions in these regions, including voluntary isolation of patients in health-care facilities during their illness.

Sudan's DEP is intervening in approximately 6,000 villages, primarily in the southern part of the country, where the civil war has prevented access to many areas in which disease is endemic. During January–June 2003, the eight affected northern states reported one indigenous case and five imported cases from southern Sudan, compared with three indigenous and nine imported cases during the same period in 2002. In the 3,613 villages in which Sudan's DEP intervened in 2001 and to which it still had access in 2002, dracunculiasis incidence declined 53% (from 45,761 cases to 21,321); however, newly accessed villages accounted for 49% of the cases reported in

TABLE. Number of indigenous dracunculiasis cases*, percentage of cases contained†, and number and percentage of villages with endemic disease§, by country and intervention, January–June 2003¶

					% villages	with ender	nic disease	
Country	No. indigenous cases reported	% cases contained	Reported no. villages with endemic disease	Reporting monthly	With filters in all households	Using Abate [®]	With ≥1 source of safe water	Provided health education
Sudan	8,477	46	4,416	64	68	1	56	76
Ghana	5,436	61	1,443	87	100	52	52	100
Nigeria	1,109	72	584	100	99	26	66	100
Togo	419	79	214	100	68	6	57	100
Burkina Faso	93	48	134	97	76	44	85	97
Côte d'Ivoire	39	49	29	97	100	59	98	97
Mali**	23	92	190	62	92	2	36	87
Benin	18	100	32	100	78	78	100	100
Ethiopia	12	100	12	100	75	50	50	100
Uganda	12	85	20	100	69	35	72	100
Niger	8	100	77	100	100	4	21	100
Mauritania	1	100	18	100	96	0	77	100

* The first occurrence in a person, during the calendar year, of a skin lesion with a Guinea worm protruding through that lesion.

A case of dracunculiasis is classified as contained if three conditions are met: 1) the infected person is detected within 24 hours of the emergence of the Guinea worm through the skin, 2) actions (i.e., occlusive bandages, counseling, and care of the patient until the worm is pulled out) are taken to prevent the person from contaminating sources of drinking water, and 3) these two conditions are confirmed by a supervisor within 7 days of occurrence.

As of month of last report.

Data provisional as of June 30, 2003.

** Interventions for Ansongo, Gao, and Gurma Rharous districts

2002. In anticipation of persons who were displaced internally returning to their homes after a peace agreement, Sudan's DEP has educated approximately 210,000 (34%) of the estimated 700,000 Sudanese in camps inside the country, and DEPs in Ethiopia, Kenya, and Uganda are doing the same for Sudanese refugees in camps there.

Reported by: The Carter Center, Atlanta, Georgia. World Health Organization Collaborating Center for Research, Training, and Eradication of Dracunculiasis, Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Dracunculiasis is a parasitic infection caused by Dracunculus medinensis. Persons become infected by drinking water from ponds contaminated by copepods (water fleas) that contain immature forms of the parasite; I year after entering the infected person, adult worms approximately 1 meter (40 inches) in length emerge through skin lesions, usually on the lower limbs, which frequently develop severe secondary bacterial infections. No effective treatment or vaccine for the disease exists, and infected persons do not become immune to future infections by the parasite. However, dracunculiasis can be prevented by 1) filtering drinking water through a finely woven cloth, 2) treating contaminated water with the larvicide Abate[®] (temephos), 3) educating persons to avoid entering water sources when Guinea worms are emerging from their bodies, and 4) providing clean water from bore-hole or hand-dug wells (5).

DEPs continue to make progress toward dracunculiasis eradication in all countries with endemic disease other than Sudan and Ghana. In 2003, for the first time, Benin, Côte d'Ivoire, and Niger appear likely to report <100 indigenous cases. Benin (with 18 indigenous cases), Côte d'Ivoire (39

cases), Mauritania (one case), and Uganda (12 cases) appear close to interrupting transmission of the disease. However, armed conflict is delaying eradication in Côte d'Ivoire, Ethiopia, and Uganda. In Ghana, a substantial reduction in the number of cases is expected as a result of efforts begun in 2002. In Sudan, the ongoing civil war remains the greatest obstacle to eradicating dracunculiasis (6). Negotiating an end to the war is essential for progress toward disease eradication to be achieved.

In those countries in which the incidence of endemic dracunculiasis has declined substantially, the most formidable obstacles to disease eradication are apathy and complacency. To help address these obstacles, the Carter Center is beginning a media campaign to publicize the DEP campaign's accomplishments and the remaining challenges for key audiences in countries in which the disease is endemic and the international community. More information about the eradication campaign is available at http://www.cartercenter.org and http://www.cdc.gov/ncidod/dpd/parasites/guineaworm.

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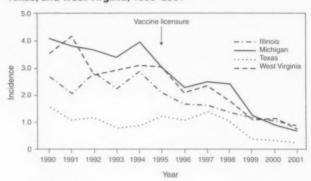
Decline in Annual Incidence of Varicella — Selected States, 1990–2001

Varicella (chickenpox) is a common, highly infectious, and vaccine-preventable disease. Before the introduction of the live attenuated varicella vaccine in 1995, approximately 4 million cases of varicella occurred annually in the United States, resulting in approximately 11,000 hospitalizations and 100 deaths (1-3). In 1996, the Advisory Committee on Immunization Practices (ACIP) recommended routine vaccination of all children at age 12-18 months, catch-up vaccination of all susceptible children before age 13 years, and vaccination of susceptible persons with close contact to persons at high risk for serious complications (4). In 1999, ACIP updated these recommendations to include vaccination requirements for child care and school entry and for postexposure; ACIP also strengthened recommendations for vaccination of susceptible adults and indicated that varicella vaccine should be considered for outbreak control (5). Changes in the national annual reported incidence of varicella disease during 1972-1997 have been reported previously (6). This report summarizes trends in the annual reported incidence of varicella disease in selected states during 1990-2001. The findings underscore the continued need to improve varicella surveillance to monitor the impact of the varicella vaccination program and assess any changes in varicella transmission and disease.

CDC reviewed all varicella cases in states with adequate and consistent reporting to the National Notifiable Disease Surveillance System (NNDSS) during 1990–2001; reporting was considered adequate if states reported cases equivalent to ≥5% of their birth cohort before 1995 and consistent if their reporting methods did not change throughout the study period. Annual state population estimates were obtained from the U.S. Census Bureau, and vaccination coverage rates were obtained from the National Immunization Survey (7). Statespecific annual incidence was calculated by using all cases reported for each year divided by the state's total population.

During 1990–2001, four states (Illinois, Michigan, Texas, and West Virginia) had adequate and consistent reporting levels. Reporting levels ranged from 6% in Texas to 25% in Michigan. During 1990–1994, the average reported incidence of varicella in all four states remained stable, ranging from 1.1 cases per 1,000 population in Texas to 3.8 in Michigan (Figure). Starting in 1999, varicella incidence declined steadily, with the average for 1999–2001 ranging from 0.3 in Texas to 1.0 in Illinois. For all four states, the lowest reported incidence occurred in 2001, ranging from 0.3 in Texas to 0.9 in Illinois. Compared with the average incidence for 1990–1994,

FIGURE. Varicella incidence*, by year — Illinois, Michigan, Texas, and West Virginia, 1990–2001



* Per 1,000 population.

reduction in varicella disease in 2001 ranged from 67% in Illinois to 82% in Michigan. This decrease in incidence corresponded with the steady increase in vaccination coverage (Table). In 2001, vaccination coverage for children aged 19–35 months reached 57% in Illinois, 73% in West Virginia, 77% in Michigan, and 84% in Texas. States with higher vaccination coverage (Michigan, Texas, and West Virginia) implemented child care and/or school entry requirements in 2000, and Illinois implemented such requirements in 2002.

Reported by: A Ali, MD, D Path, MPH, Immunization Svcs Div; H Nguyen, MPH, A Jumaan, PhD, J Zhang, PhD, P Spradling, MD, J Seward, MBBS, Epidemiology and Surveillance Div, National Immunization Program, CDC.

Editorial Note: The findings in this report suggest that the steady decline in reported varicella incidence during 1999–2001 resulted from the increased use of varicella vaccine and not a decrease in reporting. These findings are consistent with data from three active surveillance sites at which individual cases are investigated (Antelope Valley, California; West Philadelphia, Pennsylvania; and Travis County, Texas). During 1995–2000, incidence of varicella for all age groups in these three sites declined substantially (range: 76%–87%), corresponding with the high average vaccination coverage of 80% (8).

The availability of a safe and effective varicella vaccine has reduced the impact of the disease substantially. High vaccination coverage levels among all age groups are necessary to ensure that persons do not reach adolescence or adulthood without having immunity to varicella. At the start of the 2002 school year, 33 states had implemented child care or school entry requirements for varicella (CDC, unpublished data, 2003), and five more states implemented such requirements in September 2003.

The existing national varicella surveillance system is not adequate to monitor the incidence of varicella disease or to

TABLE. Percentage of children aged 19–35 months who received varicella vaccine, by year and state — National Immunization Survey, Illinois, Michigan, Texas, and West Virginia, 1996–2001

State	1996	1997	1998	1999	2000	2001
Illinois	6.9	20.1	25.8	43.6	47.9	57.0
Michigan	8.3	15.7	29.6	43.5	69.6	76.6
Texas	8.8	23.8	44.1	58.9	73.6	83.5
West Virginia	6.9	20.0	42.5	51.3	59.9	73.0

assess the impact of the vaccination program. In 2001, disease incidence was reported by 22 states and the District of Columbia; however, only four states had adequate and consistent reporting for the study period. The Council of State and Territorial Epidemiologists has recommended that by 2005, states establish or enhance varicella surveillance programs that provide individual case reporting (9). To enhance their surveillance programs, states should collect key variables, including vaccination history, age at disease onset, and severity of disease. Collecting these data will enable states to detect changes in varicella epidemiology, which will be valuable in targeting vaccination programs, assessing the need for a change in vaccine policy, and further reducing the varicella disease burden. In addition, as circulation of the varicella-zoster virus decreases with the decline in incidence, laboratory confirmation of disease will become more important. CDC and the Association of Public Health Laboratories have upgraded the diagnostic capability of national and state laboratories to support varicella disease diagnosis and enhance national and state surveillance.

Acknowledgments

This report is based on data contributed by M Dworkin, MD, Illinois Dept of Public Health. M Boulton, MD, Michigan Dept of Health. D Perrotta, PhD, Texas Dept of Health. L Haddy, MS, West Virginia Dept of Health and Human Resources.

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Wound Botulism Among Black Tar Heroin Users — Washington, 2003

During August 22–26, 2003, four injection-drug users (IDUs) in Yakima County, Washington, sought medical care at the same hospital with complaints of several days of weakness, drooping eyelids, blurred vision, and difficulty speaking and swallowing. All four were regular, nonintravenous injectors of black tar heroin (BTH), and one also snorted BTH. This report summarizes the investigation of these cases, which implicated wound botulism (WB) as the cause of illness.

Of the four patients, two were men; the patients had a median age of 38 years (range: 31-50 years). Two patients were married and used drugs at the same time and in the same setting as the third patient; however, they did not share injection equipment with the third patient. The fourth patient had no social connection with the other three. All four purchased BTH from the same dealer. No meals or gatherings were attended by all of the patients, and no single common food item had been eaten recently, including no home canned or vacuum-packed foods. On examination, all had cranial nerve palsies, including ptosis, ophthalmoplegia, dysarthria, and diminished or absent gag reflex, and upper extremity weakness, clear sensorium, and no sensory deficits. Three had infected wounds from drug injections. In two patients who went simultaneously to an emergency department, botulism was suspected immediately by the admitting physician, who alerted public health officials promptly and sought antitoxin. Antitoxin was administered within 14-24 hours of admission for all patients. Wound care and treatment with intravenous ampicillin/sulbactam was initiated within 12 hours for the three patients with wounds.

Two patients, both subcutaneous IDUs, progressed to respiratory failure despite antitoxin administration and continue to require mechanical ventilation. One is improving in strength and might progress to extubation. The other probably will require long-term ventilatory support. The third and fourth patients, both intramuscular IDUs with milder presentations, were discharged with minimal residual weakness 17 and 9 days after admission, respectively.

At the Washington State Public Health Laboratories, botulinum toxin type A was detected by mouse bioassay in serum specimens obtained from the first two patients, but not from serum of the third and fourth patients. Toxin assays and anaerobic stool cultures from all patients failed to demonstrate botulinum toxin or *Clostridium* growth, respectively. Anaerobic culture of a wound specimen from the third patient is pending, and a nasal aspirate from the fourth patient was negative. Injection paraphernalia and a sample of BTH have been submitted to CDC for further testing for toxigenic *Clostridium* bacteria.

Local and state public health officials have notified healthcare providers and acute-care facilities to increase suspicion of WB in IDUs and have emphasized the importance of prompt recognition of WB, early antitoxin administration, and appropriate wound treatment (1). Outreach staff are working through a needle exchange and other venues to inform IDUs about the outbreak, the need to seek immediate care if affected, and the ongoing risks for using BTH.

Reported by: C Spitters, MD, Yakima Health District; J Moran, MD, Yakima Valley Farmworkers Clinic; D Kruse, MD, Yakama Indian Health Clinic, Toppenish; N Barg, MD, Yakima; M Leslie, DVM, J Hofmann, MD, Washington State Dept of Health. M Moore, MD, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases; G Macgregor-Skinner, BVSc, EIS Officer, CDC.

Editorial Note: Clinical findings, laboratory results, and epidemiologic features of this outbreak reflect previous descriptions of WB in IDUs (2-4). BTH might be contaminated during the "cutting" process through incorporation of sporeladen adulterants such as dirt or boot polish (3,4). Heating the drug does not inactivate clostridial spores, and safe injection practices that protect against bloodborne infection do not reduce the risk for WB. In January 2002, a cluster of seven cases of necrotizing fasciitis occurred among IDUs in Yakima County (5). The route of injection was reported as subcutaneous in three of the patients, two of whom died. Clostridia spp. were identified in specimens from these three cases; in one case, subtyping was carried out, and the isolate was identified as Clostridium sordelii. These persons were in the same IDU network as those in the current botulism outbreak.

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The following persons assisted with the investigation and reporting of this outbreak: J Ricking, MD, Yakima Valley Farmworkers Clinic, Toppenish; C Whittlesey, MD, Wapato; C Contreras, J Vargas, B Andrews, D Flodin-Hursh, P Benitez, M Patnode, D Klukan, MSPH, Yakima Health District; R Graham, Indian Health Svc, Toppenish; M McDowell, Washington State Dept of Health; J Jones, MD, Northwest Portland Area Indian Health Board, Portland.

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Knowledge, Attitudes, and Behaviors About West Nile Virus — Connecticut, 2002

Since West Nile virus (WNV) was first recognized in the United States in 1999, the geographic distribution has widened progressively, and the resulting human morbidity and mortality has increased (1). The cornerstones of WNV control and prevention are 1) surveillance with sustained and integrated mosquito control to detect the presence of WNV in areas where humans are at risk and 2) public education on the use of personal protective behaviors (PPBs) and peridomestic mosquito control to reduce the risk for mosquito bites (2). In Connecticut, strategies to improve public education and WNV-risk awareness consist of issuing graded warnings after assessing local surveillance findings during the transmission season. In 2002, three of the 17 Connecticut patients with confirmed WNV infection reported having used any PPBs. To assess knowledge, attitudes, and behaviors about WNV during the transmission season, the Connecticut Department of Public Health added questions about WNV to its Behavioral Risk Factor Surveillance System (BRFSS) survey conducted during August-November 2002. This report summarizes the results of that analysis, which indicate that general awareness of WNV and knowledge of elderly persons being at risk for more severe illness were high; however, awareness of local surveillance findings was poor, and belief in the local presence of WNV did not predict the use of PPBs. The findings underscore the need for continued public education about the risk for WNV infection and the use of PPBs and the need for regular systematic evaluations of knowledge, attitudes, and behaviors to refine and improve public health messages effectively.

BRFSS is a state-based, random-digit—dialed telephone survey of the noninstitutionalized, civilian population aged ≥18 years. The set of WNV questions included a question about knowledge of age groups at higher risk for severe illness; a question about how worried a person was about getting WNV; two questions about awareness of local dead bird or mosquito surveillance findings; four questions about PPBs to protect against mosquito bites during July and August, the months of

peak risk in Connecticut; and a question about how often a person spent >30 minutes outdoors in the evening during July and August. PPB questions included avoiding outdoor areas where mosquitoes are present, avoiding outdoor activities, wearing long-sleeved shirts and long pants, and using insect repellent on skin or clothes. Descriptive and analytic analyses were performed by using SAS version 8.2 and SUDAAN version 7.5. Data were adjusted to account for differing probabilities of selection and to match the state population of adults by age and sex.

A total of 1,791 interviews were completed; response rate was 61%. The median age of respondents was 47 years (range: 18–97 years); 21% were aged 50–65 years, 20% were aged ≥65 years, 52% were female, 82% were white, and 98% were English-speaking.

Overall, 1,617 (96%) respondents believed that elderly persons were more likely than others to have severe illness from WNV infection, and 1,249 (63%) believed the same to be true for infants. A total of 906 (56%) respondents were at

least "a little" worried about getting WNV infection (10% "very" and 46% "a little"). A total of 19% of persons living in towns with positive WNV surveillance findings in 2002 were aware that WNV had been detected in their area.

To protect themselves from mosquitoes, 60% of respondents reported that they sometimes or always avoided outdoor areas with mosquitoes, 39% avoided outdoor activities, 51% wore long-sleeved shirts and long pants, and 57% used insect repellent on skin or clothes (Table 1). The majority (77%) of respondents sometimes or always used at least one PPB, and 45% always used at least one PPB; 59% sometimes or always used at least two PPBs, and 15% never used any PPBs.

Of the 291 persons aged ≥65 years who believed they were more likely to have severe illness, 61% always used at least one PPB, 68% sometimes or always used at least two, and 17% never used any.

Multivariable logistic regression analyses were used to examine four outcome variables, including sometimes or always using insect repellent, always using at least one PPB, sometimes or always using at least two PPBs, and never using any of the four PPBs (Table 2). Using insect repellent was significantly associated with being aged <50 years, being a little or very worried about getting WNV, and more often spending >30 minutes outdoors in the evenings. Always using at least one PPB was significantly associated with being female, being aged ≥65 years, having a lower annual income (\$25,000−\$75,000), and being a little or very worried about getting WNV. Sometimes or always using two or more PPBs also was significantly associated with being female and being a little or very worried about getting WNV. Never using PPBs was significantly associated with being male and not being worried about getting WNV.

Reported by: ML Adams, L LoBianco, L Wilcox, JL Hadler, MD, Connecticut Dept of Public Health. KS Griffith, MD, EIS Officer, CDC.

Editorial Note: The findings in this report document high awareness of WNV and knowledge of elderly persons being at risk for severe illness. Persons aged >50 years were more likely than persons aged 18–49 years to always use at least one PPB.

TABLE 1. Number and percentage of self-reported personal protective behaviors used to prevent mosquito bites, by behavior type and frequency — Connecticut, 2002

	Always		Sometimes		Never		Total	
Behavior	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Avoiding areas with mosquitoes	529	(29)	557	(31)	685	(39)	1,771	(100)
Avoiding outdoor activities	238	(13)	493	(26)	1,039	(60)	1,771	(100)
Wearing long sleeves and long pants	342	(18)	591	(33)	836	(48)	1,769	(100)
Using mosquito repellent	370	(19)	676	(38)	740	(42)	1,778	(100)

TABLE 2. Multivariable logistic regression analyses of predictors of using personal protective behaviors (PPBs) to prevent mosquito bites, by behavior type and frequency — Connecticut, 2002

Behavior	OR*	(95% CI [†])
Using mosquito repellent ("sometimes" or "always" versus "never")		
Spending >30 minutes outdoors most evenings versus never	2.3	(1.5 - 3.6)
Being very worried about getting West Nile Virus (WNV) versus not worried	2.0	(1.1 - 3.7)
Being a little worried about getting WNV versus not worried	1.5	(1.1-2.0)
Spending >30 minutes outdoors >1 evening per week versus never	1.5	(1.0-2.4)
Being aged >65 years versus aged 18-49 years	0.5	(0.3-0.7)
Always using at least one PPB		
Being aged >65 years versus aged 18-49 years	2.6	(1.7-3.9)
Being very worried about getting WNV versus not worried	2.2	(1.2 - 3.9)
Being aged 50-64 years versus aged 18-49 years	2.0	(1.4-2.8)
Being female versus male	1.9	(1.4-2.6)
Earning an annual income of \$25,000-\$75,000 versus >\$75,000	1.6	(1.1-2.2)
Being a little worried about getting WNV versus not worried	1.5	(1.1-2.1)
Always or sometimes using at least two PPBs		
Being very worried about getting WNV versus not worried	3.0	(1.6-5.5)
Being a little worried about getting WNV versus not worried	2.7	(2.0 - 3.7)
Being female versus male	2.0	(1.5-2.6)
Never using any PPBs		
Not being worried about WNV versus always worried	3.5	(1.3 - 9.9)
Being male versus female	1.8	(1.2-2.8)

^{*} Odds ratio

Confidence interval

In addition, nearly half of all respondents reported always using some form of personal protection, and reported use of PPBs was much higher among respondents than among persons with confirmed WNV infection. However, awareness of local WNV surveillance findings was poor, and, in contrast to concern about getting WNV infection, belief in the local presence of WNV was not a predictor of use of PPBs. Although public announcements of local surveillance findings should continue, additional methods of communicating the changing levels of risk and appropriate levels of concern should be explored.

The findings in this report are subject to at least four limitations. First, BRFSS relies on the use of self-reporting, which does not allow for validation of responses. Second, extensive public health outreach and education on the use of PPBs has occurred in Connecticut during the preceding 15 years, primarily because of the emergence and recognition of Lyme disease. Therefore, Connecticut residents might have a higher reported baseline use of and/or might be more responsive to public health messages concerning PPBs. Third, questions about the use of PPBs were asked specifically about behaviors during July and August; therefore, behaviors during September and October and how behaviors might have changed during the transmission season were not evaluated. Finally, because BRFSS is a telephone survey, data were not collected from persons who use cellular phones exclusively or who do not have a telephone.

The use of PPBs is the most effective means of controlling exposure to WNV infection and might depend on several factors, including an understanding of the disease and how exposure occurs, personal perception of risk, and acceptability of using available measures. The WNV epidemics of 2002 and 2003 underscore the need for continued public education, especially regarding personal protection. Additional efforts should be made to evaluate knowledge, attitudes, and behavior and to use this information to refine and improve public health messages and the effectiveness with which they are delivered. In Connecticut in 2003, questions about WNV were again added to BRFSS to monitor the use of PPBs and the effectiveness of health-education efforts.

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Public Health Dispatch

Measles Epidemic — Majuro Atoll, Republic of the Marshall Islands, July 13–September 13, 2003

During July 13–September 13, 2003, a total of 647 clinically diagnosed measles cases* were reported on Majuro Atoll in the Republic of the Marshall Islands (RMI); this is the first measles outbreak reported in RMI since 1988. An additional 74 suspected measles cases are under investigation. This report describes the clinically diagnosed measles cases and the public health response to stop the epidemic. Of the 647 cases, 15 (2%) are laboratory confirmed, either by serology, polymerase chain reaction, or viral culture. The age of patients ranged from 2 weeks to 43 years (median: 12 years); 479 (74%) patients were aged <20 years. The overall measles incidence on Majuro Atoll (estimated 2003 population: 25,097) is 26 cases per 1,000 population. The incidence is highest among infants aged <1 year (160 per 1,000 population), followed by children aged 1–4 years (40).

A total of 58 persons with measles have been hospitalized; three patients have died, including a malnourished child aged 15 months with diarrhea and pneumonia, a woman aged 27 years with pneumonia, and a woman aged 39 years whose immediate cause of death remains unknown. Postmortem examination was not available for any of these patients.

To stop measles transmission, the Ministry of Health in RMI recommended measles, mumps, and rubella vaccine (MMR) for all infants aged 6-11 months and all persons aged 1-40 years who did not have documented proof of measles immunity[†]. Before the epidemic, estimated vaccine coverage with 1 dose of MMR was <75% for children aged 1-13 years, according to evaluations of computerized vaccination records and of children screened during the vaccination campaign. As of September 13, a total of 98% of persons aged 6 months-40 years had documentation of receipt of at least 1 dose of MMR. Campaign activities that delivered 16,913 doses included 1) vaccinating health-care and public health workers, 2) vaccinating children at nine vaccination posts across the atoll, 3) delaying the start of the school year until school children were vaccinated and requiring documentation of vaccination for school entry, and 4) conducting neighborhood

^{*}Defined as a case in a person with fever, a generalized maculopapular rash, and cough, coryza, or conjunctivitis.

[†] Persons aged 12 months—18 years required documented history of 2 doses of MMR, with the first dose administered on or after the first birthday and the second dose at least 28 days after the first dose; otherwise, these persons received either their first or second dose as indicated. Persons aged >18 years required documented history of measles or 1 dose of MMR administered on or after the first birthday; otherwise, these persons received 1 dose of MMR.

and house-to-house vaccination in areas where adequate coverage was not reached.

To prevent spread from Majuro Atoll, vaccination campaigns were conducted in other atolls and islands in RMI. The Ministry of Health suspended travel of sea vessels and airlines from Majuro Atoll until vaccination campaigns had been completed in other atolls and islands, and required proof of MMR vaccination for all travelers leaving Majuro Atoll for other atolls or islands or for international destinations. A total of 17 measles cases have been reported from Ebeye Island in Kwajalein Atoll; 10 of these persons were exposed in Majuro Atoll. Two other atolls have reported six cases whose exposure was in Majuro Atoll. Measles surveillance has been enhanced in RMI, other Pacific islands, and in the United States. Spread to other areas in the Pacific and to the United States has been limited; five measles cases in Hawaii, three in Guam, one in Palau, and one in California are believed to be linked to this epidemic.

The source of importation of the measles virus to Majuro Atoll has not yet been determined, but the H1 genotype found in this outbreak is common in Asia, and the specific strain has been reported recently in measles cases from Japan and China (1,2). The Advisory Committee on Immunization Practices recommends that all international travelers be immune to measles because it is endemic or epidemic in many parts of the world, including developed countries (3,4). Persons aged <40 years who are traveling to RMI during the next 60 days should be aware that RMI requires documentation of measles immunity for all departing passengers on international flights. The documentation must fulfill the same age-specific requirements used in the vaccination campaign.

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This report is based on data contributed by P Asuo, MD, J Gancio, MD, H Emil, S Alfred, B Pharm, Majuro Hospital, Delap, Majuro Atoll, Republic of the Marshall Islands.

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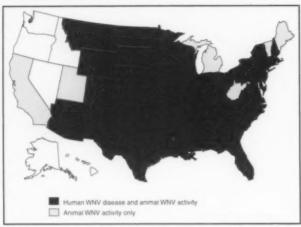
West Nile Virus Activity — United States, September 11–17, 2003

This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET as of 3 a.m., Mountain Daylight Time, September 17, 2003.

During the reporting week of September 11–17, a total of 1,214 human cases of WNV infection were reported from 28 states (Alabama, Colorado, Georgia, Iowa, Kansas, Kentucky, Louisiana, Maryland, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Texas, Wisconsin, and Wyoming), including 26 fatal cases from nine states (Alabama, Colorado, Louisiana, Minnesota, New York, Ohio, South Dakota, Texas, and Wyoming). During the same period, WNV infections were reported in 1,118 dead birds, 355 horses, two dogs, two squirrels, five infections in unidentified animal species, and 638 mosquito pools.

During 2003, a total of 4,137 human cases of WNV infection have been reported from Colorado (n = 1,542), South Dakota (n = 580), Nebraska (n = 543), Wyoming (n = 282), Texas (n = 276), Montana (n = 154), North Dakota (n = 126), New Mexico (n = 124), Pennsylvania (n = 72), Minnesota (n = 57), Louisiana (n = 52), Mississippi (n = 48), Iowa (n = 38), Oklahoma (n = 28), Kansas (n = 23), New York (n = 23), Florida (n = 22), Ohio (n = 22), Alabama (n = 21), Maryland (n = 17), North Carolina (n = 14), Georgia (n = 11), Missouri (n = 10), Illinois (n = eight), Tennessee (n = seven), Indiana (n = six), Kentucky (n = six), Wisconsin (n = six), Arkansas (n = five), New Jersey (n = four), Virginia (n = four), Arizona (n = one), Connecticut (n = one), Massachusetts (n = one), New Hampshire (n = one), Rhode Island (n = one), and South Carolina (n = one) (Figure). Of 3,969 (96%) cases for which demographic data were available, 2,081 (52%) occurred among males; the median age was 47 years (range: 1 month-99 years), and the dates of illness onset ranged from March 28 to September 11. Of the 3,969 cases, 80 fatal cases were reported from Colorado (n = 27), Nebraska (n = 10), South Dakota (n = seven), Texas (n = seven), Wyoming (n = seven), New Mexico (n = four), Alabama (n = three), New York (n = three), Iowa (n = two), Minnesota (n = two), Ohio (n = two), Georgia (n = one), Kansas (n = one), Louisiana (n = one), Mississippi (n = one), Missouri (n = one), and

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2003*



As of 3 a.m., Mountain Daylight Time, September 17, 2003.

Montana (n = one). A total of 267 presumptive West Nile (WN)-viremic blood donors have been reported from Nebraska (n = 116), South Dakota (n = 56), Texas (n = 20),

Wyoming (n = 20), Oklahoma (n = 11), Colorado (n = 10), New Mexico (n = nine), Montana (n = five), Georgia (n = four), Iowa (n = three), Minnesota (n = three), Mississippi (n = three), New Jersey (n = two), Florida (n = one), Illinois (n = one), Louisiana (n = one), Michigan (n = one), and Tennessee (n = one). Of these 267 donors, 34 subsequently had onset of WNV fever, one subsequently had onset of encephalitis, and one subsequently had onset of WNV meningoencephalitis. In addition, 7,263 dead birds with WNV infection were reported from 42 states and New York City; 1,912 WNV infections in horses have been reported from 34 states, 12 WNV infections were reported in dogs, five infections in squirrels, and 17 infections in unidentified animal species. During 2003, WNV seroconversions have been reported in 591 sentinel chicken flocks from 12 states, and 11 seropositive sentinel horses have been reported from four states. A total of 4,412 WNV positive mosquito pools have been reported from 36 states and New York City.

Additional information about WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://westnilemaps.usgs.gov.

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FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals September 13, 2003, with historical data

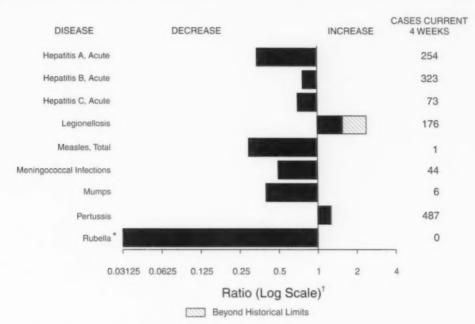


TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 13, 2003 (37th Week)*

		Cum. 2003	Cum. 2002		Cum. 2003	Cum. 2002
Anthrax			2	Hansen disease (leprosy) [†]	37	65
Botulism:			-	Hantavirus pulmonary syndrome [†]	13	15
	foodborne	8	20	Hemolytic uremic syndrome, postdiarrheal [†]	89	153
	infant	39	51	HIV infection, pediatric ¹⁵	151	112
	other (wound & unspecified)	19	11	Measles, total	351	26**
Brucellosis†		50	83	Mumps	138	197
Chancroid		32	54	Plague	1	
Cholera		1	1	Poliomyelitis, paralytic		-
Cyclosporias	is†	52	143	Psittacosis†	12	13
Diphtheria			1	Q fever†	51	38
Ehrlichiosis:			1 - 1	Rabies, human		2
	human granulocytic (HGE)†	223	211	Rubella	7	10
	human monocytic (HME)†	105	135	Rubella, congenital		1
	other and unspecified	20	15	Streptococcal toxic-shock syndrome1	119	86
Encephalitis/	Meningitis:	-	- 1	Tetanus	10	17
	California serogroup viral [†]	23	71	Toxic-shock syndrome	93	76
	eastern equine [†]	5	2	Trichinosis	2	13
	Powassan†	-	1	Tularemia†	53	58
	St. Louis [†]	1	14	Yellow fever	*	
	western equine [†]	91	-			

-: No reported cases.

Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

Not notifiable in all states.

Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention.

Last update August 24, 2003.

Of 35 cases reported, 29 were indigenous, and six were imported from another country.

** Of 26 cases reported, 13 were indigenous, and 13 were imported from another country.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 37 of zero (0).

† Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002

	All	DS	Chla	mydia†	Coccidio	domycosis	Cryptosi	poridiosis	Encephalitis/Meningitis West Nile	
Reporting area	Cum. 2003 [§]	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
INITED STATES	30,269	27,789	565,913	579,825	2,540	3,209	1.806	2,041	510	1,455
EW ENGLAND	989	1,102	19,116	19,097	-	-	111	139	-	16
laine	49	25	1,345	1,127	N	N	15	9		-
I.H.	24	22	1,023	1,099	-	-	11	23	-	
t.	13	8	690	626		*	23	23		
lass.	408	579 74	7,919	7,628	-		41	57		11
i.l.	79 416	394	2,055 6,084	1,930 6,687	N	N	12	14 13		5
					14	14				
MID. ATLANTIC	6,726	6,437	76.377	64,936			232	257	30	53
lpstate N.Y. I.Y. City	693 3,390	502 3,663	13.690 22,923	11,693 21,590	N	N	75 57	69 105	1	14 23
I.J.	1,159	1,026	9,670	9,873			4	15	2	15
a.	1,484	1,246	30.094	21,780	N	N	96	68	27	1
N. CENTRAL	2.925	2,868	90.075	106,520	7	19	460	689	21	786
Ohio	555	510	19,151	26,481	,	19	77	95	21	77
nd.	378	397	10.745	11,829	N	N	59	28	-	16
11.	1,348	1,357	27,917	33,858		2	45	90		492
Aich.	506	461	21,727	22,396	7	17	85	82	-	178
Vis.	138	143	10,535	11,956		*	194	394		23
W.N. CENTRAL	563	477	32,687	32,884	1	1	314	275	93	41
Minn.	110	105	7,094	7,371	N	N	91	136	14	
owa	63	58	2,676	3,828	N	N	52	32	6	47
Mo. N. Dak,	266	217	12,249 700	11,057 850	N	N	24 12	26 10	6 5	17
S. Dak.	9	3	1,821	1,498	14	14	29	17	16	14
Nebr.1	39	44	3.269	3,333	1	1	9	40	24	8
Cans.	74	49	4,878	4,947	N	N	97	14	22	2
S. ATLANTIC	8.582	8,222	110,217	108,994	3	3	235	212	40	31
Del.	176	142	2,123	1,860	N	N	3	2	1	-
Vid.	994	1,199	11,655	11,167	3	3	13	13	10	9
D.C.	765	394	2,053	2,310	-	*	12	4		
Va. N. Va.	655 61	578 66	11,770	12,436 1,699	N	N	34	10		*
V.C.	869	628	18,594	17,285	N	N	27	26		
S.C.1	551	586	10,678	10,360			3	5	1	1
Ga.	1,369	1,234	23,192	22,132			73	86	8	18
Fla.	3,142	3,395	28,365	29,745	N	N	66	64	20	3
E.S. CENTRAL	1,306	1,247	36,959	37,325	N	N	92	100	14	198
<y.< td=""><td>111</td><td>198</td><td>5,794</td><td>6,127</td><td>N</td><td>N</td><td>20</td><td>4</td><td>4</td><td>12</td></y.<>	111	198	5,794	6,127	N	N	20	4	4	12
Tenn.	575	525	14,235	11,552	N	N	32	48	4	
Ala.	308	248	8,424	11,671			32	41	6	13
Miss.	312	276	8,506	7,975	N	N	8	7	*	173
W.S. CENTRAL	3,128	3,024	70,708	77,316		10	32	48	135	329
Ark.	127 414	175 782	5,345 12,093	5,368	N	N	8	7	9	6
La. Okla.	154	143	6,828	13,881 8,122	N	N	2 9	10	2	181
Tex.	2,433	1,924	46,442	49,945		10	13	23	115	142
MOUNTAIN	1,152	885	32,873	35,864	1.801	2.086	94	120	177	1
Mont.	11	8	1,288	1,528	N	2,000 N	17	4	170	1
daho	17	23	1,777	1,753	N	N	20	20	1	1
Wyo.	6	6	700	658	1	*	3	9	3	
Colo.	296	178	7,735	9,904	N	N	22	44	-	-
N. Mex.	92	59	5,052	5,262	5	7	8	18	2	
Ariz. Utah	490 47	370 49	9,415 3,061	10,566	1,761	2,041	4	11	-	-
Nev.	193	192	3,061	4,217	25	28	6	3	1	
PACIFIC	4.898	3,527								
Wash.	311	3,527	96,901 11,466	96,889 10,354	727 N	1,089 N	236 25	201		-
Oreg.	184	234	4,378	4.798	-		31	29		
Calif.	4,319	2,854	76,240	76,016	727	1,089	180	149		
Alaska	13	22	2,559	2,588	-	*			*	*
Hawaii	71	81	2,258	3,133	-	*	-	1	-	~
Guam	6	1		444	.5	*			*	~
P.R. V.I.	787	798	1,367	1,833	N	N	N	N	*	-
V.I. Amer. Samoa	25 U	63 U	142 U	125 U	ū	Ú	Ü	Ü	ū	Û
C.N.M.I.	2	Ü	0	Ü	0	Ü	U	Ü	0	Ü

N: Not notifiable. U: Unavailable. :: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

† Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 31, 2003.

† Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002

		Eschen	ichia coli, Enter	ohemorrhagio	(EHEC)					
	019	57:H7	Shiga toxii serogroup	n positive, non-O157	1	n positive,	Gia	rdiasis	Gor	orrhea
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
JNITED STATES	1,454	2,469	157	135	95	32	11,627	13,786	214,259	247,229
NEW ENGLAND	98	187	28	37	11	4	817	1,251	4,916	5,399
Maine	8	24	1	6		-	115	133	138	95
V.H.	11	22	2		-	-	21	33	76	86
Vt. Vlass.	13 39	8 89	3	16	11	4	84 354	91 682	54	75
3.1.	1	8	-	1		-	82	101	2,045 672	2,329
Conn.	26	36	22	13	*		161	211	1,931	2,203
MID. ATLANTIC	167	265	11	1	24	6	2,307	2,794	29,449	29,652
Upstate N.Y.	68	118	7	-	11	*	666	777	5,368	6,042
N.Y. City N.J.	3 13	13 46	*	*	-	1	752 241	1,048 329	9,032 5,744	8,893
Pa.	83	88	4	1	13	5	648	640	9,305	5,404 9,313
E.N. CENTRAL	336	620	18	26	16	3	1,893	2,365	40,078	51,637
Ohio	69	103	13	9	15	2	610	611	10,401	14,934
Ind.	63	47	*		*			-	4,170	5,054
III, Mich,	63 56	147 98	-	6		1	482 484	682	12,577	17,179
Wis.	85	225	5	8	1		317	606 466	9,343 3,587	10,182 4,288
W.N. CENTRAL	254	347	26	25	20	3	1,280	1,381	11,527	12,705
Minn.	83	117	14	21	1	3	497	530	1,951	2,207
lowa	57	86		-		*	174	211	607	877
Mo.	57	46	8	*	1	*	333	332	5,876	6,268
N. Dak. S. Dak.	8 17	31	3	1	9	-	24 50	13 50	30 159	51 178
Nebr.	14	41	1	3	-		84	122	1.083	1,105
Kans.	18	22	*	-	9	3	118	123	1,821	2,019
S. ATLANTIC	105	190	49	22	5	-	1,864	2,025	54,674	63,010
Del.	4	5	N	N	N	N	29	36	835	1,122
Md. D.C.	7	20			-		75 36	85 29	5,527 1,648	6,293 1,878
Va.	30	44	8	5		-	237	191	5,445	7,337
W. Va.	3	4	*	-	-	-	27	35	611	686
N.C. S.C.	4	31	16	-	-	*	N	N	10,741	11,406
Ga.	21	5 38	2	7	-	-	82 645	75 660	5,827 11,520	6,686 12,182
Fla.	35	43	23	10	5	-	733	914	12,520	15,420
E.S. CENTRAL	55	81	2		6	9	236	259	17,943	21,572
Ky.	18	20	2	*	6	9	N	N	2,555	2,582
Tenn. Ala.	22 12	36 17	-	-	-	-	116	117	5,851	6,672
Miss.	3	8	-	-	-	*	120	142	5,251 4,286	7,525 4,793
W.S. CENTRAL	40	86	1		7	3	203	164	29,112	34,765
Ark.	7	9			,		106	110	2,817	3,337
La.	3	3					5	4	7,250	8,568
Okla.	20	16		-	-		92	48	2,691	3,455
Tex.	10	58	1		7	3	-	2	16,354	19,405
MOUNTAIN	182	238	20	18	6	4	1.055	1,092	6,960	7,742
Mont. Idaho	12 42	21 33	15	10	-		75 132	65 83	69 55	65 60
Wyo.	2	8	-	1	-		16	21	32	43
Colo.	39	72	2	4	6	4	286	361	1,772	2,439
N. Mex. Ariz.	6 24	5 27	3 N	3 N	N	N	32 194	118 140	819 2,587	1,060 2,559
Utah	40	50	14	-	IN .	14	239	206	304	189
Nev.	17	22	-		*		81	98	1,322	1,327
PACIFIC	217	455	2	6			1.972	2,455	19,600	20,747
Wash.	62	103	1				197	284	1,924	2.049
Oreg.	63	160	1	6	-		275	299	581	598
Calif. Alaska	85 2	154 6		-	-	*	1,390 52	1,737 68	16,205 360	17,205 425
Hawaii	5	32		-			58	67	530	470
Guam	N	N			-			7	-	36
P.R.	-	1	-	-		-	35	55	147	264
V.I.		ri.		11					36	31
Amer. Samoa C.N.M.I.	U	U	U	U	U	U	U	U	U	U

N: Not notifiable. U: Unavailable. -: No reported cases.
* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002

				Haemophilus	influenzae, in	vasive†			Hen	atitis
	All a	nges			Age <	5 years			-	te), by type
		rotypes	Serot	ype b		rotype b	Unknowe	serotype	_	A
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area	2003	2002	2003	2002	2003	2002	2003	2002	2003	2002
UNITED STATES	1,241	1,230	12	25	71	100	131	112	4,108	6,529
NEW ENGLAND	97	83	1	-	6	8	5	2	202	227
Maine N.H.	4	7	1		*		1	-	9	7
Vt.	7	6		-					11	11
Mass.	45	39		*	6	4	3	2	117	102
R.I. Conn.	5 25	10 20	-	-	-		1	-	11	29
MID. ATLANTIC	279	225		2		4			48	77
Upstate N.Y.	103	88		2	1	13	35 11	20	854	824
N.Y. City	44	54		-		-	9	9	310	131 310
N.J. Pa.	52	44	-			-	6	5	103	138
	80	39		-	*	9	9	-	352	245
E.N. CENTRAL Ohio	181 57	243 62	3	3	7	9	28	31	443	820
Ind.	36	35		1	4	7	10	7	76	231
III.	58	93			-	,	14	16	49 140	37 216
Mich.	19	11	3	2	3	1	1		140	174
Wis.	11	42	*	*	-	~	3	8	38	162
W.N. CENTRAL Minn.	89	52	*	1	6	2	11	3	137	236
lowa	34	32	*	1	6	2	2	1	37	36
Mo.	35	11				-	9	2	22 48	53 69
N. Dak.	1	4			-			-	40	1
S. Dak. Nebr.	1 2	1	-	*		-	-	-		3
Kans.	16	3			-		-		7	16
S. ATLANTIC	287	280	1	=	**	45			23	58
Del.	207	200		5	12	15	14	21	981	1,796
Md.	63	71		2	5	3		1	105	10 228
D.C. Va.	40	24	*			*			29	57
W. Va.	13	15	-		*	1	5	4	62	81
N.C.	32	30	-		3	3	1	1	13 58	15 168
S.C. Ga.	3	10	~	*	-	-	-	2	26	49
Fla.	51 85	58 72	1	3	4	8	5	10	368	361
E.S. CENTRAL	55		,	3	4		3	3	316	827
Ky.	4	52	1	1		4	7	9	123	199
Tenn.	31	26				-	4	6	23 73	40 80
Ala. Miss.	18	14	1	1		3	2	1	13	31
	2	8	*			-	1	2	14	48
W.S. CENTRAL Ark.	50	42	1	2	7	7	3	2	177	750
La.	6 7	6			1	-	2	-	17	41
Okla.	34	33			6	7	1	2	38 10	63 38
Tex.	3	2	1	2	-	*			112	608
MOUNTAIN	127	139	4	4	17	25	18	13	348	411
Mont. Idaho	4	2		*		-	-	*	7	12
Wyo.	1	2					1	1		24
Colo.	25	26	-	-			5	2	1 53	2 65
N. Mex. Ariz.	14	22		-	4	6	1	1	15	15
Utah	64 11	62 14	4	2	6	14	8	6	205	225
Nev.	8	11		1	3	3 2	3	3	28 39	31 37
PACIFIC	76	114	1	7	15	17				
Wash.	9	2		1	6	17	10	11	843 40	1,266 122
Oreg.	37	44			-	-	3	3	46	49
Calif. Alaska	17	38	1	6	9	16	4	4	743	1,067
Hawaii	13	29					1	1 3	8	8
Guam		-					,	3	6	20
P.R.	*	1			-	-			26	168
V.I.	*	-			-		-	-	20	168
Amer. Samoa C.N.M.I.	U	U	U	U	U	U	U	U	U	U
N: Not notifiable.	U: Unavailable.		orted cases.	U		U	*	U		U

N: Not notifiable. U: Unavailable. No reported cases.

Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

Non-serotype b: nontypeable and type other than b; Unknown serotype: type unknown or not reported. Previously, cases reported without type information were counted as non-serotype b.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002.

		epatitis (viral,					Lister	taata	Lyme disease	
		В	0		Legion Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	2003	2002	2003	2002	2003	2002
INITED STATES	4,302	5,154	910	1,347	1,275	757	400	412	11,315	13,723
NEW ENGLAND	169	198	2	18	51	66	33	40	1,963	3,400
Maine	1	8			2	2	6	4	150 87	49 178
N.H.	11	13	-	40	6 5	4 26	3	2	30	28
/t.	120	112	2	12	19	25	13	19	412	1,626
Mass. R.I.	139	21		-	3	1	-	1	402	186
Conn.	8	40	U	U	16	8	11	10	882	1,333
MID. ATLANTIC	694	1,087	119	71	353	206	78	120	7,625	7,770
Jpstate N.Y.	80	83	35	30	105	54	22	34	2,996	3,423 55
N.Y. City	251	538		4	28 34	43 25	11	30 24	1,372	1,915
N.J.	165 198	220 246	84	37	186	84	34	32	3,253	2,377
Pa.				76	259	194	48	56	498	1,090
E.N. CENTRAL	267 92	460 68	118	/0	164	67	18	15	51	45
Ohio Ind.	25	31	7		20	13	5	6	15	17
III.	1	98	14	16	3	21	5	13	4	46
Mich.	126	224	90	57	59	63	16	15 7	428	24 958
Wis.	23	39		3	13	30				186
W.N. CENTRAL	227	158	163	585	46	40	15	11	252 185	112
Minn.	28	20	8	2	3	9	8	1	26	30
lowa Mo.	158	13 82	153	572	21	11	4	6	29	34
N. Dak.	2	4	,00	-	1	*	~	1	-	1
S. Dak.	2	1	-	1	2	2	-	1	2	5
Nebr.	17	21	1	9	2 8	9	3	1	10	4
Kans.	13	17	-			400	96	56	811	1,017
S. ATLANTIC	1,356	1,230	124	149	362 20	133	86 N	N	133	146
Del. Md.	5 94	13 94	13	8	86	25	13	12	480	585
D.C.	7	14			11	5		-	6	17
Va.	130	142	6	6	69	16	9	4	57	101
W. Va.	20	18	1	2	12	7	5 14	5	14 62	95
N.C.	111	174	10 24	22	26 5	6	2	8	2	12
S.C. Ga.	110 404	81 318	3	60	19	12	21	9	12	1
Fla.	475	376	67	47	114	55	22	18	45	48
E.S. CENTRAL	285	264	60	101	75	24	23	10	42	51
Ky.	49	45	9	4	31	10	5	2	10	18 16
Tenn.	139	100	18	22	28	8	6	5	12	8
Ala.	45	53	6	6 69	13	6	2	-	15	9
Miss.	52	66	27			23	19	24	33	110
W.S. CENTRAL	222	718	195	214	25	23	1	24	*	2
Ark. La.	38 46	89 96	46	67	-	4	1	1	3	3
Okla.	31	41	2	4	5	3	2	7	20	105
Tex.	107	492	144	133	18	16	15	16	30	
MOUNTAIN	455	447	53	45	45	28	24	23	15	13
Mont.	13	4	1	-	2	3	2	2	3	3
Idaho	0.7	6	*	5	3 2	2	-		1	1
Wyo.	27 59	58	26	6	9	5	9	4	4	1
Colo. N. Mex.	26	125		2	2	2	2	2	1	1 2
Ariz.	227	166	7	4	9	6 7	7	11	3	4
Utah	47	30 44	19	24	13 5	3	2	1	3	1
Nev.	56						74	72	76	86
PACIFIC	627	592	76	88 17	59	43	2	8	2	8
Wash.	47 83	53 100	13 11	10	N	N	4	8	15	11
Oreg. Calif.	474	427	50	60	51	40	64	49	56	65
Alaska	8	6	1	*					3 N	2 N
Hawaii	15	6	1	1	*		4	7	N	14
Guam					*	-	-		N	N
P.R.	41	140						2	IN .	
V.I.		Ú	Û	Ú	Ū	Ü	U	U	U	U
Amer. Samoa	U	U	U	Ü		Ŭ	-	U	*	U

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)*

		laria	dis	gococcal sease	Per	lussis	Rabie	s, animal	Rocky Mountain spotted fever	
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum.	Cum.
UNITED STATES	688	1,024	1,150	1,358	4,730	5.692	4,084	5,509	2003 483	2002 710
NEW ENGLAND	27	59	52	77	496	503	401	654	400	4
Maine N.H.	3 2	6	5	10	12	8	43	43	*	-
Vt.	1	2	1	4	57 54	10 96	13 27	32 81		-
Mass. R.I.	6	25	33	41	358	353	153	205		3
Conn.	14	18	2	13	14	10 26	43 122	55		1
MID. ATLANTIC	167	273	139	169	486	283		238	-	
Upstate N.Y. N.Y. City	40	31	35	38	269	197	651 288	897 509	27	46
N.J.	78 25	177 37	27 19	32 25	39	12	5	10	7	9
Pa.	24	28	58	74	178	74	62 296	121 257	10	16
E.N. CENTRAL	62	134	173	193	396	671	115	132	8	21
Ohio ind.	14	15	47	60	178	312	41	29	6	26 10
11.	20	12 57	37 38	24 44	45	86 109	15	27	1	3
Mich. Vis.	20	40	34	30	75	41	15 37	28 34	2	11
	6	10	17	35	98	123	7	14	-	-
W.N. CENTRAL Winn.	38 21	51 16	106	116	273	483	453	371	52	92
owa	4	3	20 17	29 17	106 64	220 108	26 89	30 60	1	-
Mo. N. Dak.	3	14	52	39	61	94	32	40	41	3 85
S. Dak.	2	1	1	2	3	5	45	32		-
Nebr.		5	7	22	5	5	67 58	74	4 2	4
Cans.	7	11	8	7	30	44	136	135	2	4
S. ATLANTIC Del.	210	236	218	217	432	315	1,871	1,939	279	326
Ad.	51	84	24	6 7	54	53	43 245	24	1	1
D.C. /a.	8 26	15	20	-		1		297	80	32
V. Va.	4	20	20	33	76 6	107 29	393 67	428	19	24
N.C.	18	16	30	25	90	29	575	135 516	5 121	199
Ga.	3 36	6 40	20 25	21 25	90 30	32	172	101	14	44
la.	61	50	88	96	85	23 39	261 115	303 135	31 8	19
S. CENTRAL	12	17	60	75	113	179	136	181	67	
(y. ienn.	5	6	14 16	12	37	78	29	19	1	99
Ma.	3	3	15	30 17	57 15	65 28	86 21	108	48	59
Miss.	-	5	15	16	4	8	-	52	10	11
V.S. CENTRAL	18	57	99	166	382	1,340	175	882	40	102
a.	4 3	1 3	12 25	22 32	28	468	25	3	-	30
Okla. ex.	4	7	13	17	6 12	34	150	90	39	61
MOUNTAIN	7	46	49	95	336	831		789	1	11
font.	34	37	57	77	700	695	134	224	9	13
daho	1		6	2 3	60	53	20 13	14 27	1	1
Vyo. Colo.	1	20	2		119	10	4	15	2 2	4
I. Mex.	1	20	16	23	232 50	269 146	31	35	2	2
riz. Itah	12	6	15	23	125	109	5 49	9 112	1	1
lev.	4	5	7	18	87 23	61	9	9	1	
ACIFIC	120	160	246	268		43	3	3	-	5
Vash.	19	16	24	51	1,452 417	1,223	148	229	-	2
Oreg. Calif.	10 85	8 128	41	38	344	158	6	14		2
laska		2	169	170	681	695	135	189	-	-
lawaii	6	6	9	6	10	26	7	26		-
uam R.				1		2		-		
.1.	1	1	2	6		2	55	62	N	N
mer. Samoa	U	U	Ú	Ü	Ü	Ü	ú	Ü	Ü	
N.M.I.		U	-	U	1	ŭ		Ü	Ü	U

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002

					Strontosoo	al discour			eumoniae, invasive	
		onellosis		llosis	Streptococo invasive,		Drug re		Age <	5 years
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum.	Cum
UNITED STATES	25,439	28,489	13,753	13,061	4,064	3.537	1,586	1,808	2003	2002
NEW ENGLAND	1,478	1,548	213	241	332	271	40		320	239
Maine N.H.	98	102	6	4	22	20	40	86	6	2
/t.	94 48	95 59	5	8	21	31	*	-	N	N
Mass.	872	882	145	156	17 159	9	6 N	4	3	1
R.I. Conn.	89	109	11	9	11	14	10	N 11	N 3	N 1
	277	301	40	63	102	105	24	71	ŭ	Ú
MID. ATLANTIC Jostate N.Y.	3,012	3,861	1,589	1,171	740	572	96	84	73	59
V.Y. City	759 802	1,019	280 258	193	297	231	54	72	56	49
V.J.	358	769	206	337 428	96 130	132 121	N	U	U	U
Pa.	1,093	1,073	845	213	217	88	42	N 12	N 17	N 10
N. CENTRAL	3,808	4.043	1,242	1,491	890	757	332			
Ohio nd.	1,026	941	249	456	253	169	219	163 33	133 77	89
na. II.	423 1,211	372 1,392	112	77	92	41	113	128	34	44
Aich.	572	654	601 191	699 123	180	217		2		
Vis.	576	684	89	136	303 62	240 90	N	N	N	N
W.N. CENTRAL	1.740	1,747	569	779	264				22	43
Ainn.	368	403	68	159	131	193 99	128	332 220	44	41
owa Mo.	260	285	48	99	N	N	N	N	38 N	37 N
I. Dak.	702 28	595 24	290	121	56	38	9	5	2	1
Dak.	78	76	13	16 151	11 19	**	3	1	4	3
lebr.	101	123	90	163	21	11 16	1	1		
lans.	203	241	57	70	26	29	115	25 80	N	N
. ATLANTIC	6,902	6,968	5,344	4.115	721	578	828	838	15	
Del. Md.	61	60	146	93	6	2	1	3	N	25 N
D.C.	580 34	671 51	480 54	806	213	89	*	-		19
a.	752	738	307	42 672	12 90	6	2		5	3
V. Va.	92	93	-	8	31	62 16	N 57	N 36	N 10	N
I.C. S.C.	848	917	673	248	86	105	N	N	Ü	3 U
a.	443 1,284	464 1.305	305	81	32	31	116	144	N	N
la,	2,808	2.669	1,326 2,053	938 1,227	86 165	112 155	194 458	209	N	N
S. CENTRAL	1,645	2,080	629	951	159			446	N	N
(y.	293	238	72	100	37	81 16	106 13	114	A.1	**
enn.	531	529	236	62	122	65	93	13 101	N	N
Ma. Miss.	364 457	542 771	190	498	*		-		N	N
V.S. CENTRAL			131	291			*			*
irk.	2,007 498	3,040 643	1,763 75	2,008	150	237	33	152	45	19
a.	258	535	144	148 330	5	6	8	6	- 10	
Okla.	313	347	593	356	65	36	25 N	146 N	10 27	6 2
ex.	938	1,515	951	1,174	79	194	N	N	8	11
MOUNTAIN Mont,	1,485	1,562	743	530	359	420	20	39	4	4
iaho	77 131	71 102	2 24	3	2	2	-			-
Vyo.	68	45	5	5 7	18	6 7	N	N	N	N
olo.	322	447	139	118	102	89	4	10	*	*
. Mex. riz.	153	212	144	105	89	80	16	29		
tah	462 160	409 122	350 38	232	135	210	-		N	N
ev.	112	154	41	39	9 2	28		-	4	4
ACIFIC	3,362	3.640	1,661	1,775	449	400	~			*
lash.	362	334	113	109	38	428 46	3		N	NI.
reg.	287	262	183	74	N	N	N	N	N	N
alif. laska	2,522	2,802	1,328	1,545	330	328	N	N	N	N
awaii	137	45 197	7 30	3 44	81	54	-		N	N
uam		35	-		01		3			
R.	169	347	3	24 26	N	N	N	4 N	N	AI.
II.	*	-	*	-		14	IN	N	N	N
mer. Samoa .N.M.I.	U	U	U	U	U	U	U	U	U	U
at wordled.	*	U		U	*	U		U		Ü

N: Not notifiable. U: Unavailable. -: No reported cases.
* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)*

			hilis						
		secondary	Cong	genital	Tube	erculosis	Tunho	id fever	Varicella
Reporting area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	(Chickenpox
UNITED STATES	2003 4,692	2002	2003	2002	2003	2002	2003	2002	Cum. 2003
NEW ENGLAND		4,665	246	292	7,528	8,919	190	226	8,523
Maine	143	100	1		215	279	21	11	1,273
N.H.	13	2		•	5 7	10			640
Vt. Mass.	96	1	ω.		3	4	2	-	504
R.I.	14	68		•	140	146	11	7	504 126
Conn.	14	21	-		27 33	39 71	2		3
MID. ATLANTIC	595	492	46	45	1.482		6	4	
Upstate N.Y. N.Y. City	32	23	14	1	193	1,546 222	29	56	25
N.J.	330 115	292 99	24	19	803	748	11	6 27	N
Pa.	118	78	8	24	294	348	9	16	
E.N. CENTRAL	628	870	45		192	228	2	7	25
Ohio	157	106	2	44	783 144	902	12	25	3,824
ind. III.	33	44	7	2	93	144 78	2	6 2	940
Mich.	238 189	330 371	15	33	366	438	1	10	*
Wis.	11	19	21	7	144 36	189	6	3	2,308
W.N. CENTRAL	98	89	3			53	*	4	576
Minn.	34	42	3	1	324 134	384	3	9	39
lowa Mo.	4	2			17	159 24	1	3	N
N. Dak.	34	23	3	*	79	102	1	2	N
S. Dak.	1		-	-	16	4		-	39
Nebr. Kans.	4	5	~		10	10	1	:	-
	21	17	*		68	65	1	4	*
S. ATLANTIC Del.	1,242	1,159	47	68	1,521	1.811	36	28	4.500
Ad.	204	9 137	8	- 40		13	*	20	1,598 20
O.C.	37	36		13	153	207	7	7	~
/a. V. Va.	59	52	1	1	183	195	10	-	22
I.C.	115	207	16	47	12	24	10	3	436 941
S.C.	78	86	4	17 9	219 111	230	6	1	N
Ga. Fla.	300 443	257	5	13	229	122 373	7	5	179
S. CENTRAL		373	13	14	614	647	6	12	N
y.	219 29	356 66	12	19	446	545	5	4	**
enn.	94	132	5	3	84	99		4	N
Ma. Miss.	79	124	4	7	148 147	216 145	2	-	N
	17	34	2	3	67	85	3		-
V.S. CENTRAL	632	603	44	65	1,042	1.366	7		
a.	40 93	109	-	6	66	93		24	1,354
kla.	34	48	1	2	90	110		-	4
ex.	465	422	43	57	886	116 1,157	7	24	N
OUNTAIN lont.	206	224	21	11	274	272	3		1,350
laho	5	1			5	6	3	9	410
/yo.	-			-	5	10		-	N
olo. . Mex.	14	48	3	2	3 56	2 59	-	-	43
riz.	38 136	138			6	24	3	4	-
tah	4	138	18	9	149	140	-		4
ev.	9	9	-	2	28 22	18 13	~	2	363
ACIFIC	929	772	27	39	1,441		-	2	
lash, reg.	55	39		1	180	1,814 171	74	60	
alif.	27 845	11 715	0.7		83	80	4	4 2	-
aska		/ 13	27	37	1,095	1,416	66	52	
awaii	2	7		1	42 41	36 111	1		*
uam R.		6		-			1	2	*
1.	140	179	1	21	33	50 75		-	
mer. Samoa	Ú	U	ú						278
N.M.I.		Ŭ		U	U	U	U	U	U

N: Not notifiable. U: Unavailable. -: No reported cases.

* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

Reporting Area	122 U.S. cities,* week ending September 13, All causes, by age (years)								All causes, by age (years)						
	All Ages	≥65	45-64	25-44	1-24	<1	P&I [†] Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I ¹ Tota
NEW ENGLAND	499	344	107	30	9	9	44	S. ATLANTIC	1,194	753	284	93	41	22	51
Boston, Mass.	146	95	33	10	2	6	11	Atlanta, Ga.	154	87	42	17	7	1	2
tridgeport, Conn.	19	14	5	-		-	2	Baltimore, Md.	173	98	44	18	7	6	9
Cambridge, Mass.	11	7	2	2		*	1	Charlotte, N.C.	101	62	22	10	4	3	9
Fall River, Mass.	27	19	8		*		7	Jacksonville, Fla.	175	133	33	5	3	1	5
Hartford, Conn.	41	21	12	6	2		3	Miami, Fla.	78	48	14	10	5	1	4
Lowell, Mass.	23	18	5	*	~	-	2	Norfolk, Va.	43	27	10	3	4	3	4
Lynn, Mass.	11	10 25	1 2	2	-	-	1	Richmond, Va. Savannah, Ga.	64 41	38 29	18	2	4		2
New Bedford, Mass. New Haven, Conn.	29 41	34	3	2	1	1	3	St. Petersburg, Fla.	55	33	18	-	2	2	3
Providence, R.I.	53	35	13	2	2	1	5	Tampa, Fla.	190	124	46	11	3	5	10
Somerville, Mass.	1	1						Washington, D.C.	99	59	22	12	6		3
Springfield, Mass.	42	29	9	2	1	1	1	Wilmington, Del.	21	15	5	1	*		
Waterbury, Conn.	U	U	U	U	U	U	U				106	62	26	22	43
Worcester, Mass.	55	36	14	4	1	-	7	E.S. CENTRAL	866 179	551 114	196 36	63 10	26 6	5	10
MID ATLANTIC	1 000	1 240	400	143	40	39	93	Birmingham, Ala. Chattanooga, Tenn.	62	42	16	2	1	1	3
MID. ATLANTIC	1,990	1,340	428 14	3	1	39	2	Knoxville, Tenn.	96	63	28	5			9
Albany, N.Y. Allentown, Pa.	14	13	1	-			1	Lexington, Ky.	38	22	10	2	3	1	1
Buffalo, N.Y.	92	64	21	5	2	-	9	Memphis, Tenn.	209	123	46	20	9	11	8
Camden, N.J.	28	19	5	4	-		2	Mobile, Ala.	93	61	16	11	3	2	3
Elizabeth, N.J.	17	11	3	3	-		1	Montgomery, Ala.	43	31	9	2	1	-	8
Erie, Pa.	47	34	10	3	-			Nashville, Tenn.	146	95	35	11	3	2	10
Jersey City, N.J.	40	28	7	4		1		W.S. CENTRAL	1.374	858	282	122	63	49	73
New York City, N.Y.	1.006	671	226	71	21	17	33		80	52	18	8	1	1	5
Newark, N.J.	51	27	16	6	2	-	2	Austin, Tex. Baton Rouge, La.	U	U	U	U	Ú	Ü	U
Paterson, N.J.	17	10	4	*	1	2		Corpus Christi, Tex.	58	41	10	4	2	1	2
Philadelphia, Pa.	253	149	61	27	5	11	15	Dallas, Tex.	188	110	51	16	3	8	6
Pittsburgh, Pa.	31	22	3	2	2	2	2	El Paso, Tex.	114	80	23	8	2	1	1
Reading, Pa.	24	19	2	1	1	1	4	Ft. Worth, Tex.	123	77	27	5	2	12	8
Rochester, N.Y.	135	100	25	5	2	3	10	Houston, Tex.	343	184	68	40	40	11	23
Schenectady, N.Y.	25	20	4	1		-	2	Little Rock, Ark.	76	57	2	9	3	5	4
Scranton, Pa.	21	15	5	1		-	7	New Orleans, La.	U	U	U	U	U	U	U
Syracuse, N.Y.	97	75	13	5	2	2		San Antonio, Tex.	212	136	46		7	4	8
Trenton, N.J.	17	11	5	1	1		•	Shreveport, La.	87	55	19		3	2	8
Utica, N.Y. Yonkers, N.Y.	12 21	17	3	1	1		3	Tulsa, Okla.	93	66	18	5		4	8
								MOUNTAIN	845	555	186	63	23	16	51
E.N. CENTRAL	2,077	1,400	428	130	49	69	115	Albuquerque, N.M.	149	103	26		5	2	8
Akron, Ohio	59	34	18		1	6	5	Boise, Idaho	U	U	U	U	U	U	L
Canton, Ohio	41	30	6	4	40	1	7	Colo. Springs, Colo.	60	39	11	7	1	2	1
Chicago, III.	361	222	88	32	12	7	24	Denver, Colo.	104	62	24		4	8	8
Cincinnati, Ohio	79 123	54 76	20	2	2	4	4	Las Vegas, Nev.	224	140	59		8	1	13
Cleveland, Ohio Columbus, Ohio	123 U	U	U	U	U	Ü	Ü	Ogden, Utah	29	14	10		1	1	
Dayton, Ohio	119	91	20	5	2	1	10	Phoenix, Ariz.	U	U	U		U	U	L
Detroit, Mich.	172	98	35	17	8	13	10	Pueblo, Colo.	27	25	2			*	
Evansville, Ind.	49	39	9		1		2	Salt Lake City, Utah	104	75	21		2	2	11
Fort Wayne, Ind.	79	54	18	3		4	1	Tucson, Ariz.	148	97	33	14	2		
Gary, Ind.	21	11	4	3	1	2	1	PACIFIC	1,263	888	233		24	26	78
Grand Rapids, Mich.	65	49	6	2	1	7	8	Berkeley, Calif.	25	16	4		1	2	1
Indianapolis, Ind.	429	289	85	31	8	16	20	Fresno, Calif.	85	58	15		5	2	
Lansing, Mich.	44	31	11	1		1		Glendale, Calif.	17	15	2		*		1
Milwaukee, Wis.	115	82	21	5	5	2	6	Honolulu, Hawaii	U	U	U		U	U	
Peoria, III.	43	32	7	1	1	2	2	Long Beach, Calif.	71	49	14 35		3	1	
Rockford, III.	53	40	8	5			1	Los Angeles, Calif.	194	136	35		3	3	
South Bend, Ind.	71	52	13	5	1	-		Pasadena, Calif.	21 181	18 118	44		1	5	
Toledo, Ohio	98	71	19	4	2	2		Portland, Oreg.	U	U	U		Ü	Ŭ	
Youngstown, Ohio	56	45	9	1	1	-	2	Sacramento, Calif. San Diego, Calif.	188	127	31		4	4	
W.N. CENTRAL	586	388	132	31	20	15	31	San Francisco, Calif.	U	U	L		Ü	U	
Des Moines, Iowa	106	76	23	2	3	2		San Jose, Calif.	176	132	28		1	5	
Duluth, Minn.	33	27	5	1				Santa Cruz, Calif.	U	U	ī		U	U	
Kansas City, Kans.	45	28	10		3	1		Seattle, Wash.	143	101	29		4	1	
Kansas City, Mo.	75	47	15		4	4		Spokane, Wash.	49	36	10		*	1	
Lincoln, Nebr.	58	44	9	3	2			Tacoma, Wash.	113	82	18		2	2	
Minneapolis, Minn.	51	30	13		2	5					2.276			267	
Omaha, Nebr.	81	55			3	1		TOTAL	10,694	7.077	2,210	/00	290	207	3/
St. Louis, Mo.	U	U			U	U									
St. Paul, Minn. Wichita, Kans.	52 85	39 42			1 2	1									

U: Unavailable. No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

† Preumonia and influenza.

Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

† Total includes unknown ages.

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